

I INTRODUCTION

This is the final report on the interpretation of the aeromagnetic survey over the offshore portion of EL17/65. The surveyed area extends along the continental shelf from Swansea to South East Cape. The area is bounded approximately by latitudes $42^{\circ}08'$ and $43^{\circ}35'$, and longitudes $146^{\circ}47'$ and $148^{\circ}20'$.

The aeromagnetic data were recorded and compiled by Aero Service Limited. The operation of the survey and the compilation of the data is described in Part I of this report.

The survey area was flown concomitantly with a more extensive aeromagnetic survey for Esso Exploration.

II QUALITY OF STAFF

The Magnetic Basement interpretation and report were prepared in Brisbane by Geophysical Associates Pty. Ltd.'s aeromagnetic geophysicist, A.S. Falloon. The preliminary interpretation was submitted to G.A.P.L.'s parent company in Houston for review by R.H. Hammons and Dr. N.C. Steenland.

Mr. Falloon has been engaged in geological and geophysical exploration for thirteen years, the last two years with G.A.P.L.

Mr. Hammons has been with G.M.X. since 1954 and has been engaged in aeromagnetic interpretation for seven years.

Dr. Steenland has been with G.M.X. since 1949 and has been in charge of aeromagnetic interpretation since that time.

III DESCRIPTION OF THE SURVEY

The survey was reconnaissance in nature with single flight lines spaced at intervals of approximately two miles. The lines are generally at right angles to the coast line.